

136-802 5W DTW specific configuration
Spot | Ø82mm | round | chrome black | 5/7W | 3CCT/DTW

Introduction

Purpose of this Document

This document provides information for 136-802 5W DTW. During measurement, the product is used in a different mode where output power, colour temperature and/or beam angle are changed from factory standard. These adjustments can be made without altering the product and are designed to be set by the installer. In most cases, the options are set through switches on the product.

Results

Total input power	5.6 W
Correlated Colour Temperature	2923 K
Total lumen output	302 lm
Efficiency	54 lm/W

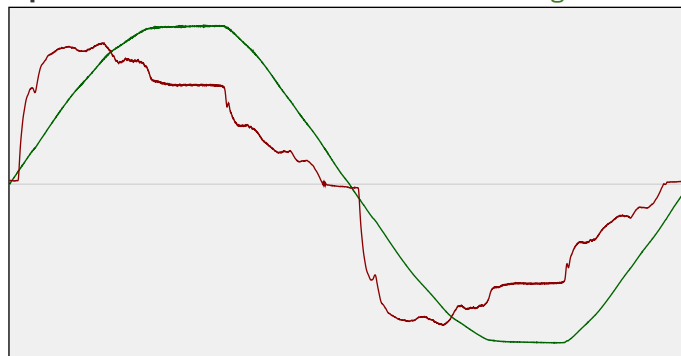
Electrical measurement details

Input Power

RMS Input voltage feed. V_{RMS}	230 V
RMS Input current feed. I_{RMS}	0.027 A
Total input power	5.6 W
Frequency of input power	50 Hz
Power factor	0.89
Displacement power factor	0.92
Total harmonic distortion of the current	24.17%
Total harmonic distortion of the voltage	2.71%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 19.1%



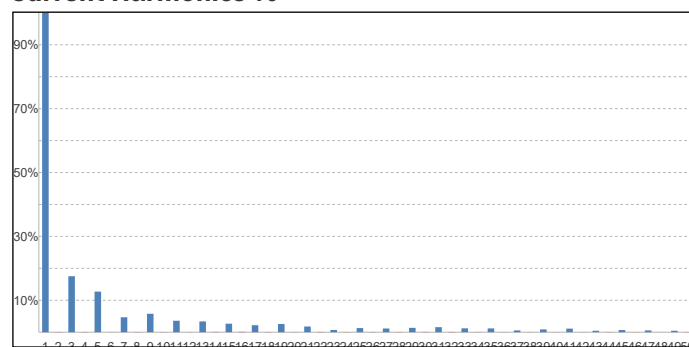
Lumen efficiency: 54 lm/W



Harmonics

3rd Harmonic	17.53%
5th Harmonic	12.71%
7th Harmonic	4.68%
9th Harmonic	5.77%
11th Harmonic	3.59%

Current Harmonics %



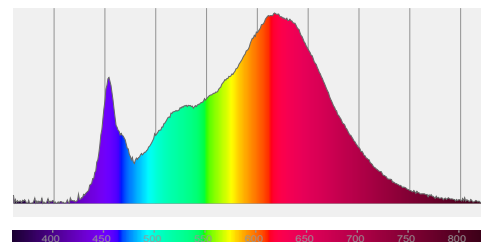
136-802 5W DTW specific configuration

Colour measurement details

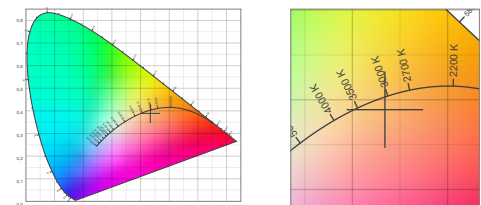
Total lumen output 302 lm
 Correlated Colour Temperature 2923 K
 Colour coordinates CIE 1931 (x;y) = (0.434;0.389)
 Colour deviation from BBL Duv = -0.0058

TM30-18 Colour Fidelity Index R_f 92.4
 TM30-18 Colour Gamut Index R_g 101.3
 Colour Rendering Index (Ra) CRI 94.4
 Colour Rendering Index. (red component) $R_9 = 70.2$

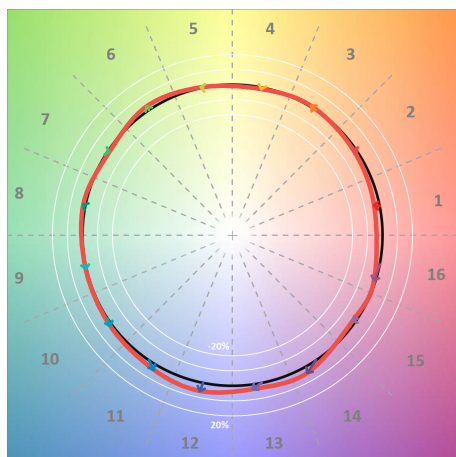
Colour Quality Scale CQS = 91.9
 Television Lighting Consistency Index TLCI = 91



Relative spectral power distribution



TM30 details

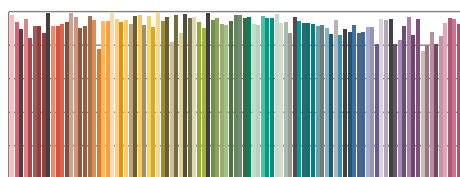


TM30 Colour vectors per hue bin

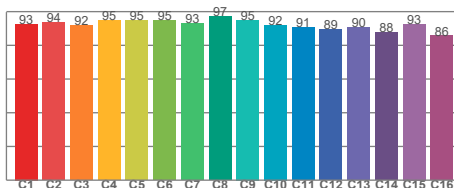


TM30 Colour distortion

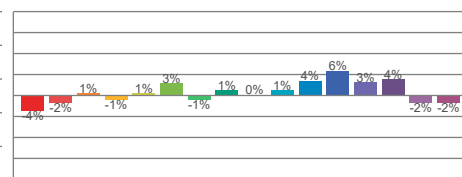
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	93	-4%	1%
C2	94	-2%	3%
C3	92	1%	4%
C4	95	-1%	0%
C5	95	1%	1%
C6	95	3%	0%
C7	93	-1%	0%
C8	97	1%	-1%
C9	95	0%	3%
C10	92	1%	5%
C11	91	4%	6%
C12	89	6%	-1%
C13	90	3%	-7%
C14	88	4%	-9%
C15	93	-2%	-3%
C16	86	-2%	-11%



TM30-18 R_f -values per reference colour

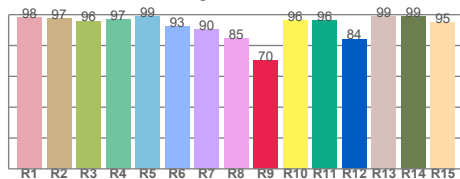


TM30-18 R_f -values per hue bin

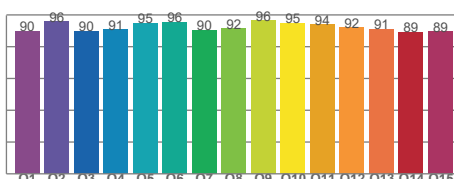


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale